INSTRUCTION OF USE
MANUALE USO E MANUTENZIONE

INSTRUCTIONS FOR USE OF THE FOLLOWING VESTA PRODUCTS
IL PRESENTE MANUALE DI USO E MANUTENZIONE È VALIDO PER I SEGUENTI PRODOTTI VESTA:
COILS SINGLES OR ASSEMBLED ON VALVES / *SOLENOIDI SINGOLI O ASSEMBLATI SU ELETTROVALVOLE:*
MS11050, MS22050, CS11050, CS22050, SCN11050, SCN22050

Please pay attention to the following Vesta products:
Coil and connector offer protection from dust and water to IP65 only when correctly installed with the fixing screw and rubber gasket which are supplied as standard (grommet, coil seal, "O" ring).

Prescrizioni di montaggio per preservare il grado di protezione IP65
Per preservare il grado di protezione IP65 del collegamento elettrico è necessario eseguire il montaggio nel seguente modo:
- Prima di effettuare il collegamento elettrico dei cavi al connettore infilare nel cavo stesso il pressacavo avvitando il serracavo sul connettore.
- Montare la guarnizione bobina fra bobina e connettore, quindi fissare il connettore alla bobina con l'apposita vite, avvitandola adeguatamente.
- Montare quindi la bobina sulla valvola posizionando l'anello di tenuta (OR) nell'apposita sede della bobina.

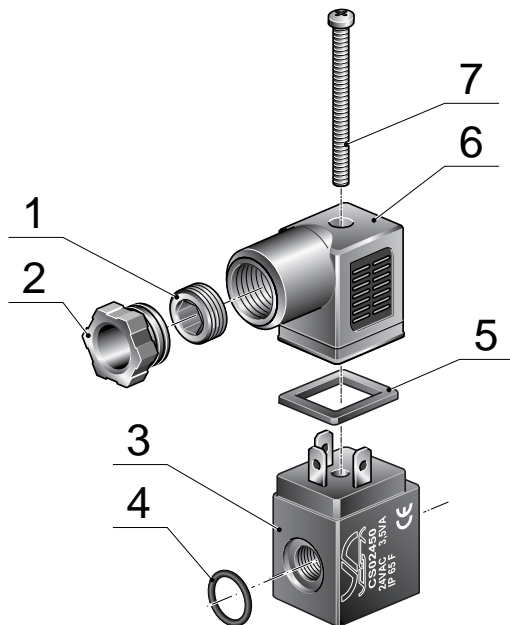
Ground connection
Ground connection must be secure and adequate.

Messa a terra
La bobina prevede il morsetto a terra che deve essere collegato opportunamente all'impianto di messa a terra dell'installazione che deve essere realizzata a regola d'arte.

Electrical connection
When choasing the cable for electrical connections, take into account the location and environment of the installation (ex. Following the CEI 60204-1 stamdard).

Collegamento elettrico
I conduttori utilizzati per il collegamento devono essere scelti e montati a regola d'arte tenuto conto dell'ambiente e delle condizioni di utilizzo nonché delle caratteristiche elettriche di impiego (tensione e corrente di esercizio). Si consiglia di seguire, ove applicabile, la pertinente normativa applicabile (ad es. CEI EN 60204-1).

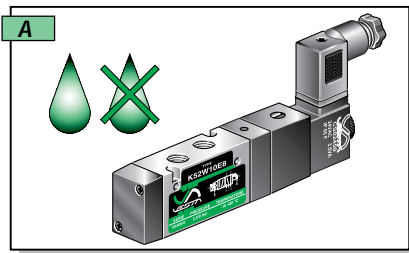
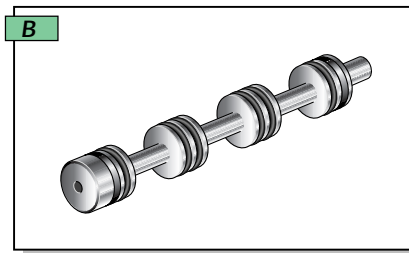
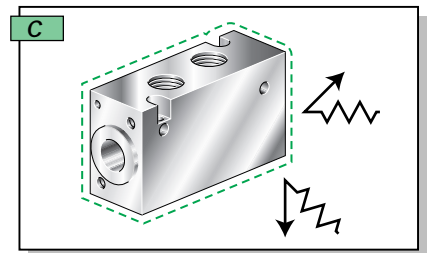
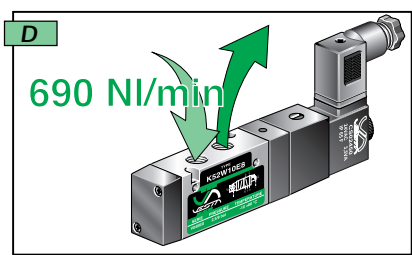
Should the above instructions not be followed to the letter Vesta Automation will not be hold responsible.

L'installatore e l'utilizzatore sono tenuti ad attenersi scrupolosamente alle indicazioni impartite.
Qualsiasi omissione solleverà Vesta Automation s.r.l. da ogni responsabilità e danno conseguenti.

Coils and accessories for solenoid valves.
Solenoidi ed accessori per elettrovalvole.

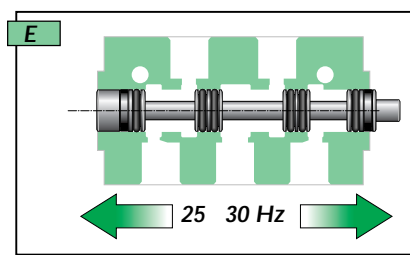
Position *Posizione*	**Description** *Descrizione*
1	Grommet / *Pressacavo*
2	Gland nut / *Serracavo*
3	Solenoid coil / *Bobina*
4	O-Ring / *OR*
5	Coil seal / *Guarnizione bobina*
6	Connector / *Connettore*
7	Fixing screw / *Vite*

BUILDING FEATURES / *CARATTERISTICHE COSTRUTTIVE*

Series **K** mini-valves and solenoid valves are built in compact dimensions and are capable to be assembled on manifolds. In order to assure their performance, particular care and attention have been offered in developing each component for this product. Possibility to operate continuosly without lubrication (**A**).
The spool is manifactured in a light alloy (**B**).
This offers lasting durability and a hight working frequency (**E**) : due to the manifacturing of the internal moving parts, inertia and friction are greatly reduced, and a better resistence to the external agressive agents is assured by the nickel treatment (**C**).
The nominal air flow of the valve is around 690 Nl/min (**D**), despite of its small dimensions.
The solenoid valves, complete with coil and connector, follows EEC directives on the electromagnetic compatibility (89/336/EEC) and low voltage (73/23/EEC).

*Le mini valvole ed elettrovalvole Vesta serie **K** funzionano secondo il principio del cassetto bilanciato (vedi fig. **1**e **2**), presentano ingombri molto ridotti e la possibilità di assemblaggio in batterie compatte.*
*Particolare cura è stata prestata nella progettazione e realizzazione di ogni singolo componente del prodotto, al fine di consentire elevate prestazioni funzionali. Caratteristiche comuni a tutte le valvole della serie sono l'alta velocità di scambio (**E**), la possibilità di funzionamento continuo privo di lubrificazione (**A**) ottenuto con l'impiego di materiali particolari come, ad esempio, la spola, realizzata in lega leggera (**B**), ed il corpo, in alluminio trattato al nichel (**C**). Tutto ciò garantisce una elevata frequenza di lavoro e una lunga vita del sistema, grazie ad una riduzione dell' inerzia delle parti mobili, ad una riduzione degli attriti interni e ad un maggior grado di resistenza agli agenti aggressivi esterni.*
*Particolarmente interessante, nonostante le ridotte dimensioni, la portata nominale: 690 Nl/min. (**D**).*
Le elettrovalvole complete di bobina e connettore, sono conformi alle direttive CEE relative alla compabilità elettromagnetica (89/336/CEE) ed alla bassa tensione (73/23/CEE).

Possibility to operate continuosly without lubrication.
Possibilità di funzionamento continuo privo di lubrificazione.

Light alloy spool.
Spola in lega leggera.

Nickel treated body.
Corpo in alluminio trattato al nichel.

Nominal air flow: 690 Nl/min.
Alta portata nominale: (690 Nl/min a 6 bar).

E

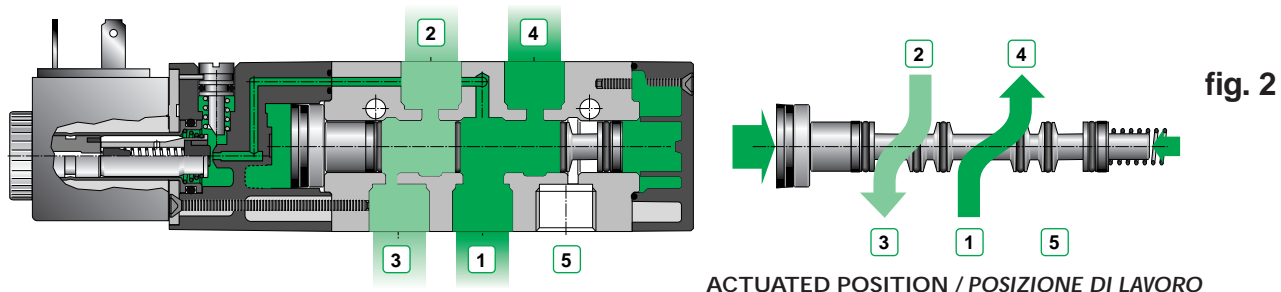
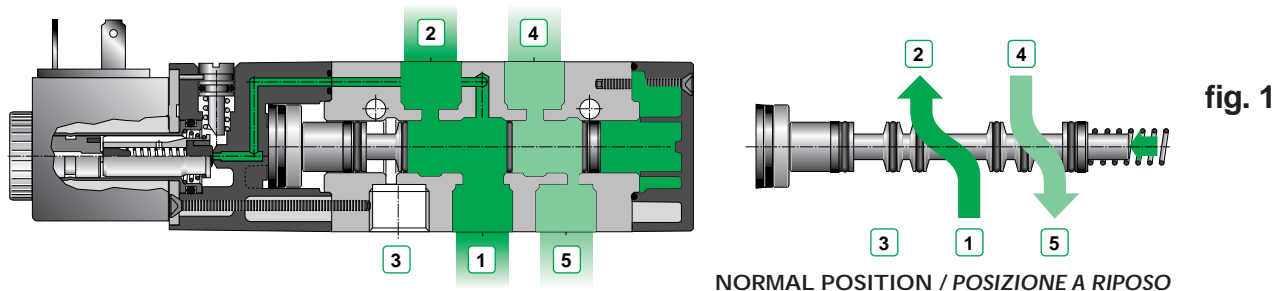
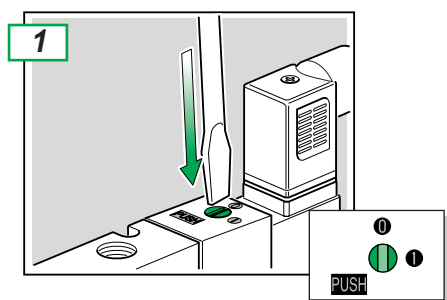
25 30 Hz

High working frequency.
Alta velocità di scambio.

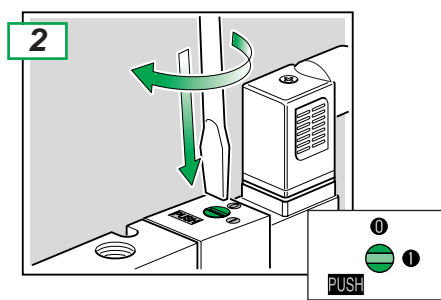
WORKING PRINCIPLE / *PRINCIPIO DI FUNZIONAMENTO*

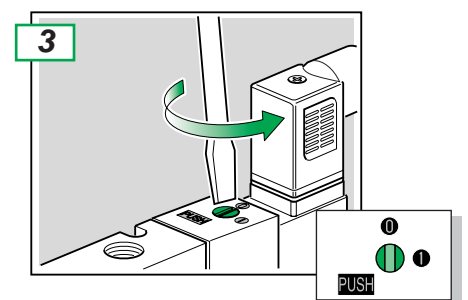
In the example here below (**K52W1018-02450** - 5/2 valve, single solenoid, spring return), when the valve stands in the normal position, ports **4 - 5** and **1- 2** are connected and the position is kept thanks to the pressure assured to the smallest piston and to the spring force (right side of the valve). When the valve is actuated, the same pressure is fed to the biggest piston. Its bigger surface create a force which allows to the spool to move and therefore to connect ports **4 - 1** and **2 - 3**. Spring return assures (grant) the normal position of the spool even if no pressure is brought to the valve.
In the bistable versions, the position of the valve remains in its last switched state.

Il principio di funzionamento del distributore 5/2 (nell'esempio l'elettrovalvola ***K52W1018 - 02450*** *con comando elettropneumatico e riposizionamento a molla) consiste nel mantenere la spola in posizione di riposo per azione sia di una molla meccanica che per effetto della pressione creata dalla fonte d'aria compressa presente nel condotto di alimentazione* ***1*** *sulla spola stessa (fig.* ***1****) collegando le vie* ***1- 2*** *e* ***4 - 5****.*
L' eccitazione del solenoide mette in comunicazione il condotto ***1*** *con la camera dove é alloggiato il pistone di comando. Quest'ultimo contrasta l'insieme delle forze create dalla molla e dalla pressione sul lato opposto della spola, spostandola in modo tale da collegare i canali* ***1- 4*** *e* ***2- 3*** *(fig.* ***2****).*
Diseccitando il solenoide si ripristina la posizione iniziale. La combinazione del sistema a molla meccanica con il riposizionamento pneumatico consente di avere sempre la spola in posizione di riposo anche dopo la caduta di pressione del sistema.
Nei sistemi bistabili (doppio comando elettropneumatico o doppio comando pneumatico) in assenza di segnale rimangono i collegamenti formatisi nell'ultimo azionamento.

NORMAL POSITION / *POSIZIONE A RIPOSO*

ACTUATED POSITION / *POSIZIONE DI LAVORO*

MANUAL OVERRIDING / *AZIONAMENTO COMANDO MANUALE*

Push to actuated valve without locking. ***Relise the button to get back to normal position.***

Per azionare la valvola, durante la fase di collaudo con pressione in linea senza collegamento elettrico, usare un adeguato cacciavite per premere la vite del comando manuale. ***Rilasciare per ripristinare la condizione di riposo.***

To active the valve permanently, push the M/O using a screwdriver and rotate clockwise 90°.

Per azionare la valvola in modo permanente premere la vite del comando manuale e ruotare in senso orario sino alla posizione 1.

To get back to normal position push the M/O again and turn 90° anti-clockwise.

Ruotare in senso antiorario la vite del comando manuale per ripristinare la condizione di riposo.

VALVOLE ED ELETTROVALVOLE *VALVES AND SOLENOID VALVES*

TECHNICAL FEATURES / *CARATTERISTICHE TECNICHE*

C0MMON TECHNICAL FEATURES K SERIE / *CARATTERISTICHE TECNICHE COMUNI SERIE* K

Port connections **G1/8**, **G1/4**
Flow section .... **G1/8"**= Ø 6 mm
G1/4"= Ø 8 mm
Environment temperature range .... -10 °C ÷ +50 °C
Temperature range of medium .... 0 °C ÷ +40 °C
Lubrication .... Not required
Medium .... Filtered air
Reference pressure .... 6 bar
Nominal air flow 3/2 and 5/2 valves (valvole 5/3)...... **G1/8"**: 690 (552) Nl/min
G1/4": 1300 (1040) Nl/min

Connessioni di lavoro ***G1/8***, ***G1/4***
Diametro nominale .... ***G1/8"***= *Ø 6 mm*
G1/4"= *Ø 8 mm*
Temperatura ambiente .... *-10 °C ÷ +50 °C*
Temperatura fluido .... *0 °C ÷ +40 °C*
Lubrificazione .... *Non necessaria*
Fluido .... *Aria filtrata*
Pressione nominale .... *6 bar*
Portata nominale valvole 3/2 e 5/2 (valvole 5/3) .... ***G1/8"***: *690 (552) Nl/min*
G1/4": *1300 (1040) Nl/min*

PNEUMATIC VALVES FEATURES / CARATTERISTICHE *VALVOLE PNEUMATICHE*

Size *Taglia*	Code *Codice*	Nominal pilot pressure (bar) *Pressione di pilotaggio nominale (bar)*	Nominal max frequence (Hz) *Frequenza max nominale (Hz)*	Operating pressure range (bar) *Pressione di esercizio (bar)*
G 1/8"	K32P1618	3,1 bar (9 bar)	30 Hz	2,5 ÷ 9 bar
	K32P1918	3,1 bar (9 bar)	30 Hz	2,5 ÷ 9 bar
	K32P2018	0,97 bar	33 Hz	0 ÷ 9 bar
	K52P1018	3,1 bar (9 bar)	30 Hz	2,5 ÷ 9 bar
	K52DP218	(12) 1,35 bar - (14) 0,97 bar	30 Hz	0 ÷ 9 bar
	K52P2018	0,97 bar	33 Hz	0 ÷ 9 bar
	K53P2318	3 bar	10 Hz	0 ÷ 9 bar
	K53P2618	3 bar	10 Hz	0 ÷ 9 bar
	K53P2918	3 bar	10 Hz	0 ÷ 9 bar
G 1/4"	K32P1614	3,1 bar (9 bar)	30 Hz	2,5 ÷ 9 bar
	K32P1914	3,1 bar (9 bar)	30 Hz	2,5 ÷ 9 bar
	K32P2014	0,97 bar	33 Hz	0 ÷ 9 bar
	K52P1014	3,1 bar (9 bar)	30 Hz	2,5 ÷ 9 bar
	K52DP214	(12) 1,35 bar - (14) 0,97 bar	30 Hz	0 ÷ 9 bar
	K52P2014	0,97 bar	33 Hz	0 ÷ 9 bar
	K53P2314	3 bar	10 Hz	0 ÷ 9 bar
	K53P2614	3 bar	10 Hz	0 ÷ 9 bar
	K53P2914	3 bar	10 Hz	0 ÷ 9 bar

SOLENOID VALVES FEATURES / CARATTERISTICHE *ELETTROVALVOLE*

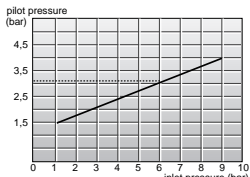
Size *Taglia*	Code *Codice*	Nominal max frequence (Hz) *Frequenza max nominale (Hz)*		Operating pressure range (bar) *Pressione di esercizio (bar)*	External pilot port *Connessione di pilotaggio esterna*	Pilot pressure *Pressione di pilotaggio*
		AC	DC			
G 1/8"	K32W1S618	27 Hz	17 Hz	2,5 ÷ 9 bar	-	-
	K32W1S918	27 Hz	17 Hz	2,5 ÷ 9 bar	-	-
	K32W2S018	42 Hz	34 Hz	3 ÷ 9 bar	-	-
	K52W1018	27 Hz	17 Hz	2,5 ÷ 9 bar	-	-
	K52W2018	42 Hz	34 Hz	3 ÷ 9 bar	-	-
	K52W10E8	27 Hz	17 Hz	0 ÷ 9 bar	M5	3 ÷ 9 bar
	K52W20E8	42 Hz	34 Hz	0 ÷ 9 bar	M5	3 ÷ 9 bar
	K53W2S318	12 Hz	10 Hz	3 ÷ 9 bar	-	-
	K53W2S618	12 Hz	10 Hz	3 ÷ 9 bar	-	-
	K53W2S918	12 Hz	10 Hz	3 ÷ 9 bar	-	-
G 1/4"	K32W1S614	27 Hz	17 Hz	2,5 ÷ 9 bar	-	-
	K32W1S914	27 Hz	17 Hz	2,5 ÷ 9 bar	-	-
	K32W2S014	42 Hz	34 Hz	3 ÷ 9 bar	-	-
	K52W1014	27 Hz	17 Hz	2,5 ÷ 9 bar	-	-
	K52W2014	42 Hz	34 Hz	3 ÷ 9 bar	-	-
	K52W10E4	27 Hz	17 Hz	0 ÷ 9 bar	M5	3 ÷ 9 bar
	K52W20E4	42 Hz	34 Hz	0 ÷ 9 bar	M5	3 ÷ 9 bar
	K53W2S314	12 Hz	10 Hz	3 ÷ 9 bar	-	-
	K53W2S614	12 Hz	10 Hz	3 ÷ 9 bar	-	-
	K53W2S914	12 Hz	10 Hz	3 ÷ 9 bar	-	-

For electrical features solenoid pilot see p. B-44 for G1/8 and pp. B-29 ÷ B-31 for G1/4.
Caratteristiche elettriche elettrovalvole per solenoide vedi p. B-44 per G1/8. e pp. B-29 ÷ B-31 per G1/4.

VALVE / *VALVOLA* 3/2

SINGLE PNEUMATIC PILOT - INTERNAL PRESSURE RETURN

COMANDO PNEUMATICO - RIPOSIZIONAMENTO A MOLLA PNEUMATICA

DIAGRAM / *DIAGRAMMA*

pilot pressure (bar)

inlet pressure (bar)

PILOT PRESSURE

DIAGRAMMA DELLA PRESSIONE DI PILOTAGGIO

Size *Taglia*	A	B	C	D	E	ØF	G	H	ØI	L	M
1/8	28	18	66,2	22,2	13	3,2	G1/8	G1/8	3,2	22,2	8
1/4	32	22	75,3	29,3	16,2	4,2	G1/4	G1/8	3,5	29,3	7,3

K32V1P.1.

SIMBOLS / *SIMBOLI*

K32V1P61.

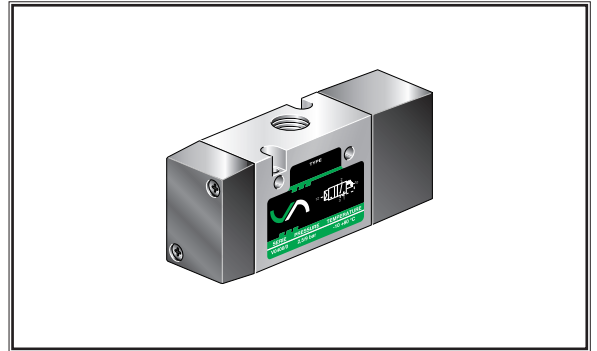
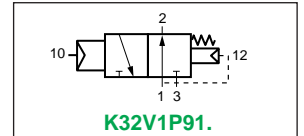
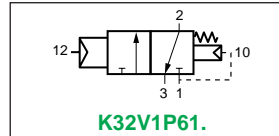
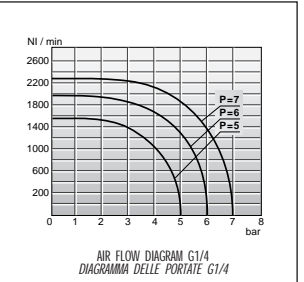
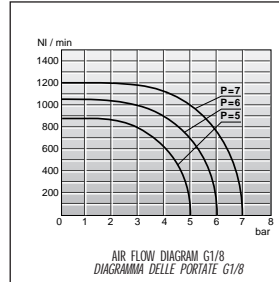
K32V1P91.

DIAGRAMS / *DIAGRAMMI*

AIR FLOW DIAGRAM G1/8

DIAGRAMMA DELLE PORTATE G1/8

AIR FLOW DIAGRAM G1/4

DIAGRAMMA DELLE PORTATE G1/4

VALVE / *VALVOLA* 3/2

DOUBLE PNEUMATIC PILOT / *DOPPIO COMANDO PNEUMATICO*

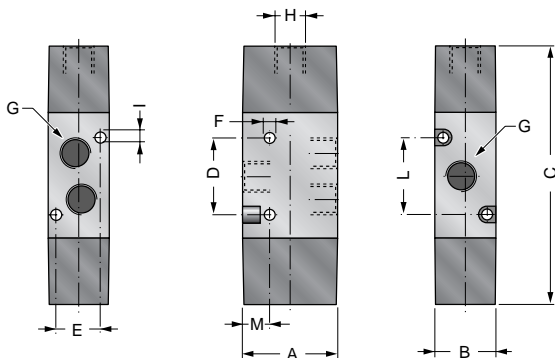
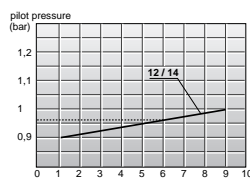



DIAGRAM / *DIAGRAMMA*

pilot pressure (bar)

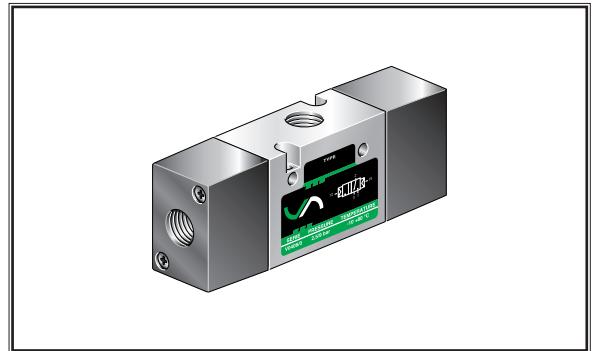
12 / 14

inlet pressure (bar)

PILOT PRESSURE

DIAGRAMMA DELLA PRESSIONE DI PILOTAGGIO

Size *Taglia*	A	B	C	D	E	ØF	G	H	ØI	L	M
1/8	28	18	76,2	22,2	13,5	3,2	G1/8	G1/8	3,2	22,2	8
1/4	32	22	88,3	29,3	16,2	4,2	G1/4	G1/8	3,5	29,3	7

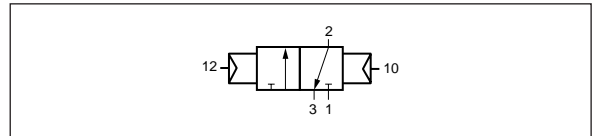
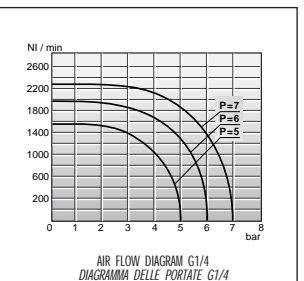
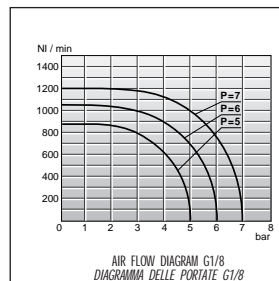
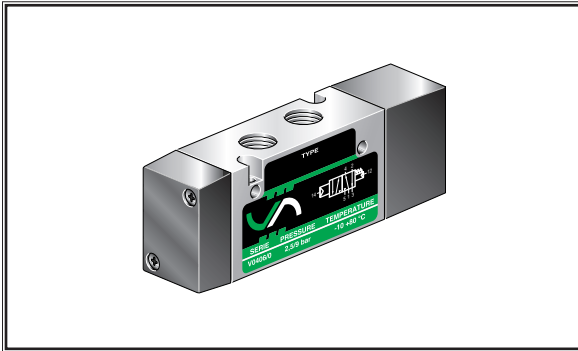
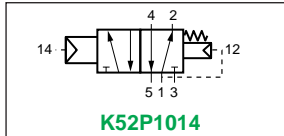
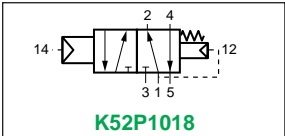
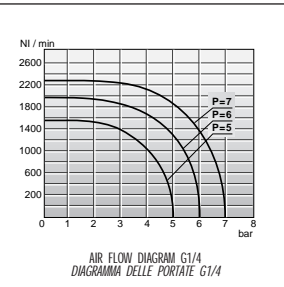
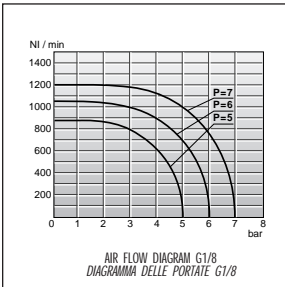
K32V2P01.

SIMBOL / *SIMBOLO*

DIAGRAMS / *DIAGRAMMI*

AIR FLOW DIAGRAM G1/8

DIAGRAMMA DELLE PORTATE G1/8

AIR FLOW DIAGRAM G1/4

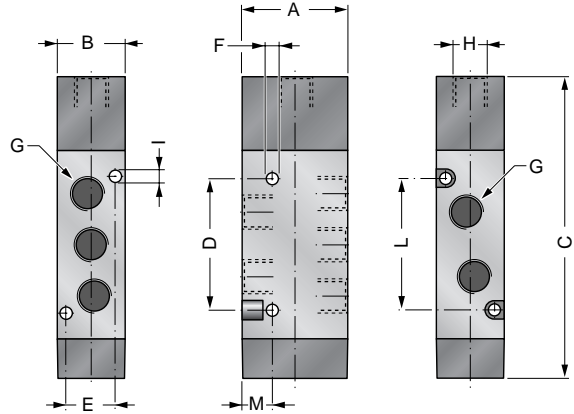
DIAGRAMMA DELLE PORTATE G1/4

K52P101.

VALVE / *VALVOLA* 5/2

SINGLE PNEUMATIC PILOT - INTERNAL PRESSURE RETURN

COMANDO PNEUMATICO - RIPOSIZIONAMENTO A MOLLA PNEUMATICA

SIMBOLS / *SIMBOLI*

K52P1018

K52P1014

DIAGRAMS / *DIAGRAMMI*

Size *Taglia*	A	B	C	D	E	ØF	G	H	ØI	L	M
1/8	28	18	80	35	13	3,2	G1/8	G1/8	3,2	35	8
1/4	32	22	96	50	16,2	4,2	G1/4	G1/8	3,5	50	7,3

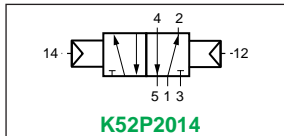
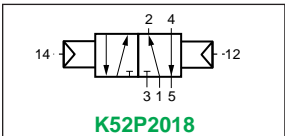
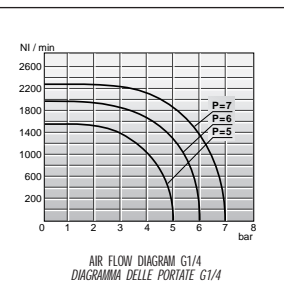
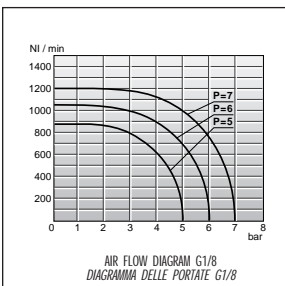
DIAGRAM / *DIAGRAMMA*

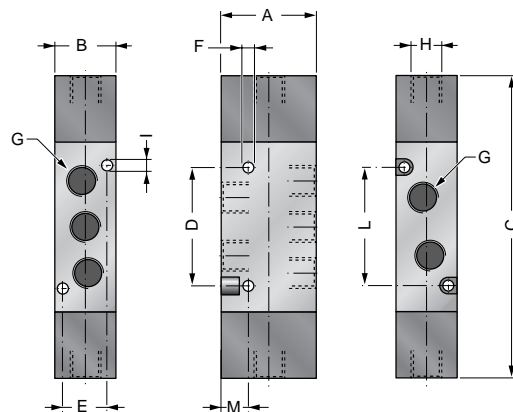
pilot pressure (bar)

inlet pressure (bar)

PILOT PRESSURE

DIAGRAMMA DELLA PRESSIONE DI PILOTAGGIO

K52P201.

VALVE / *VALVOLA* 5/2

DOUBLE PNEUMATIC PILOT / *DOPPIO COMANDO PNEUMATICO*

SIMBOLS / *SIMBOLI*

K52P2018

K52P2014

DIAGRAMS / *DIAGRAMMI*

Size *Taglia*	A	B	C	D	E	ØF	G	H	ØI	L	M
1/8	28	18	89	35	13	3,2	G1/8	G1/8	3,2	35	8
1/4	32	22	109	50	16,2	4,2	G1/4	G1/8	3,5	50	7,3

DIAGRAM / *DIAGRAMMA*

PILOT PRESSURE

DIAGRAMMA DELLA PRESSIONE DI PILOTAGGIO

VALVE / *VALVOLA* 5/2

DOUBLE DIFFERENTIAL PNEUMATIC PILOT

DOPPIO COMANDO PNEUMATICO DIFFERENZIALE

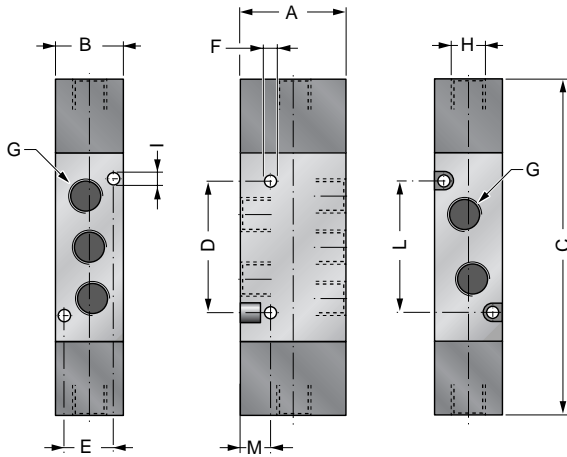



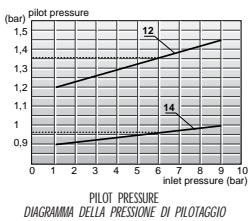
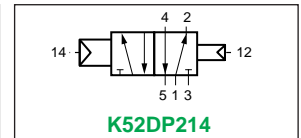
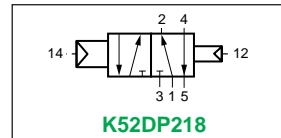
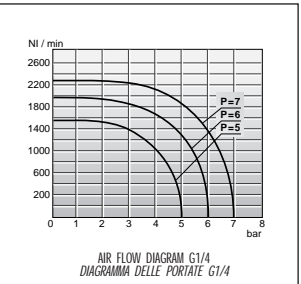
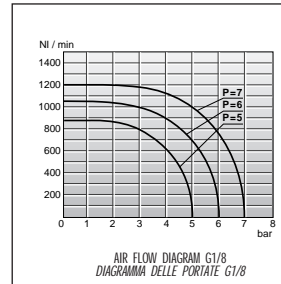
DIAGRAM / *DIAGRAMMA*

PILOT PRESSURE

DIAGRAMMA DELLA PRESSIONE DI PILOTAGGIO

Size *Taglia*	A	B	C	D	E	ØF	G	H	ØI	L	M
1/8	28	18	89	35	13	3,2	G1/8	G1/8	3,2	35	8
1/4	32	22	109	50	16,2	4,2	G1/4	G1/8	3,5	50	7,3

K52DP21.

SIMBOLS / *SIMBOLI*

DIAGRAMS / *DIAGRAMMI*

AIR FLOW DIAGRAM G1/8

DIAGRAMMA DELLE PORTATE G1/8

AIR FLOW DIAGRAM G1/4

DIAGRAMMA DELLE PORTATE G1/4

VALVE / *VALVOLA* 5/3

DOUBLE PNEUMATIC PILOT (MID-POSITION PRESSURIZED) / *DOPPIO COMANDO PNEUMATICO (CENTRI IN PRESSIONE)*

DOUBLE PNEUMATIC PILOT (MID-POSITION CLOSED) / *DOPPIO COMANDO PNEUMATICO (CENTRI CHIUSI)*

DOUBLE PNEUMATIC PILOT (MID-POSITION EXHAUSTED) / *DOPPIO COMANDO PNEUMATICO (CENTRI APERTI)*

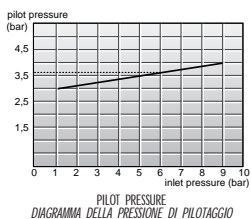
DIAGRAM / *DIAGRAMMA*

PILOT PRESSURE

DIAGRAMMA DELLA PRESSIONE DI PILOTAGGIO

Size *Taglia*	A	B	C	D	E	ØF	G	H	ØI	L	M
1/8	28	18	89	35	13	3,2	G1/8	G1/8	3,2	35	8
1/4	32	22	109	50	16,2	4,2	G1/4	G1/8	3,5	50	7,3

K53P2 . 1.

SIMBOLS / *SIMBOLI*

DIAGRAMS / *DIAGRAMMI*

AIR FLOW DIAGRAM G 1/8"

DIAGRAMMA DELLE PORTATE G 1/8"

AIR FLOW DIAGRAM G 1/4"

DIAGRAMMA DELLE PORTATE G 1/4"

K32W1S.1.

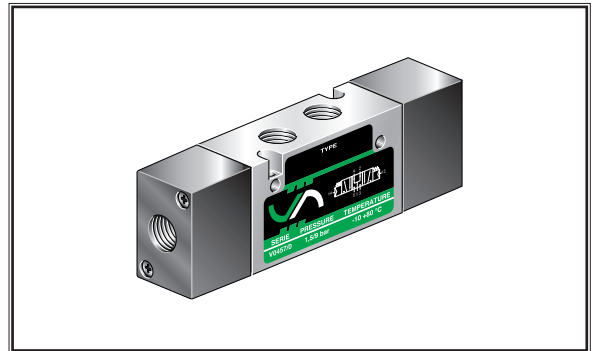
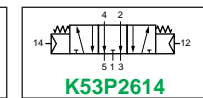
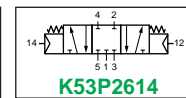
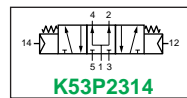
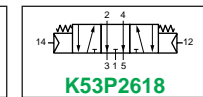
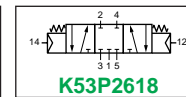
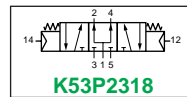
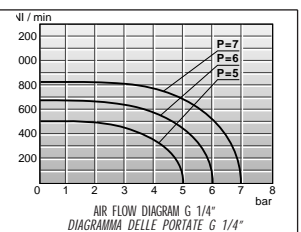
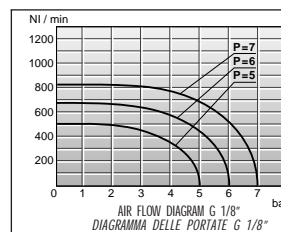
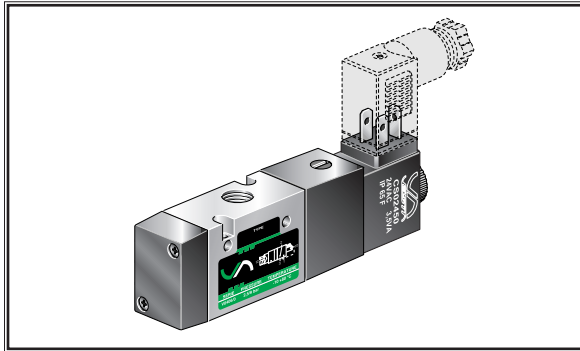
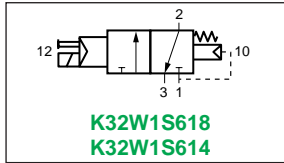
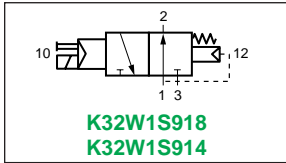
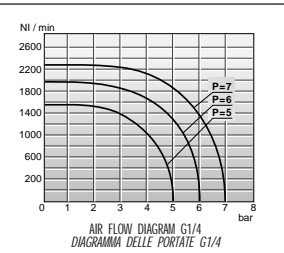
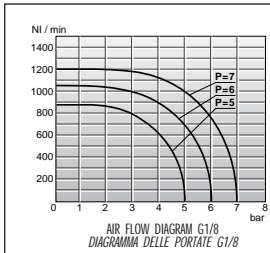
SIMBOLS / *SIMBOLI*

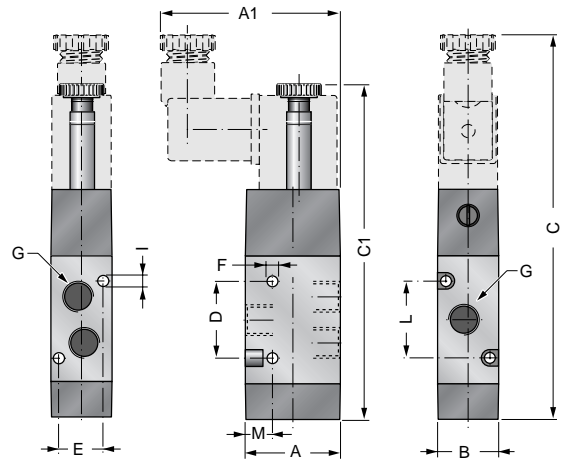
K32W1S918
K32W1S914

K32W1S618
K32W1S614

DIAGRAMS / *DIAGRAMMI*

AIR FLOW DIAGRAM G1/8
DIAGRAMMA DELLE PORTATE G1/8

AIR FLOW DIAGRAM G1/4
DIAGRAMMA DELLE PORTATE G1/4

VALVE / *VALVOLA* 3/2

SINGLE SOLENOID PILOT - INTERNAL PRESSURE RETURN
COMANDO ELETTROPNEUMATICO - RIPOSIZIONAMENTO A MOLLA

Size *Taglia*	A	A1	B	C	C1	D	E	ØF	G	ØI	L	M
1/8	28	~53	18	130,5	~113	22,2	13	3,2	G1/8	3,2	22,2	8
1/4	32	~55	22	121	~122	29,3	16,2	4,2	G1/4	3,5	29,3	7,3

K32W2S01.

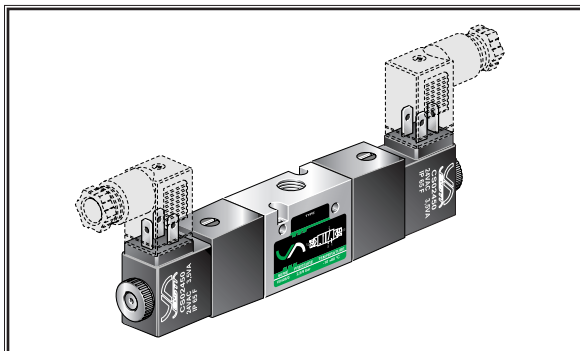
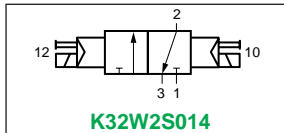
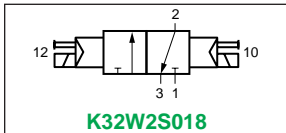
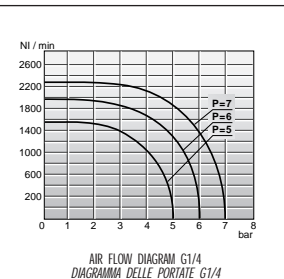
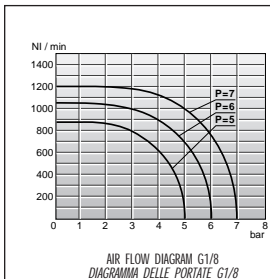
SIMBOLS / *SIMBOLI*

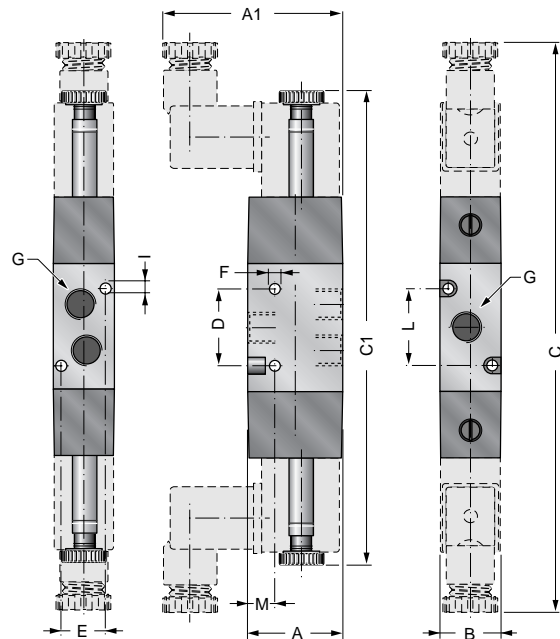
K32W2S018

K32W2S014

DIAGRAMS / *DIAGRAMMI*

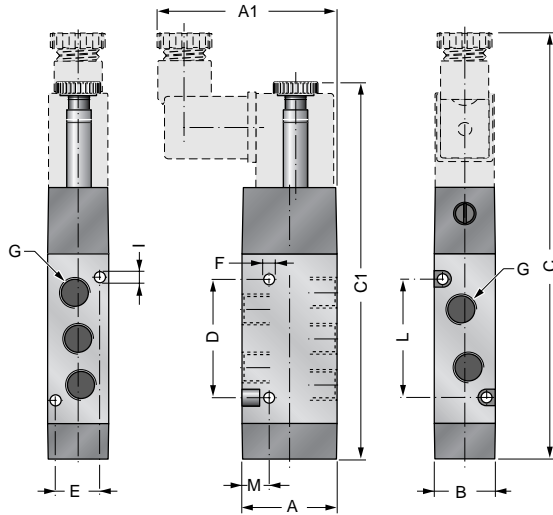
AIR FLOW DIAGRAM G1/8
DIAGRAMMA DELLE PORTATE G1/8

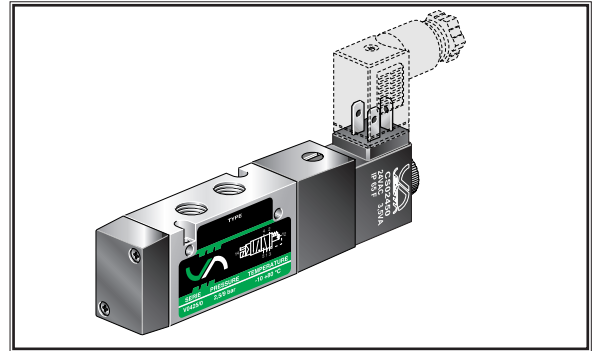
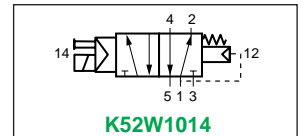
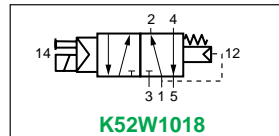
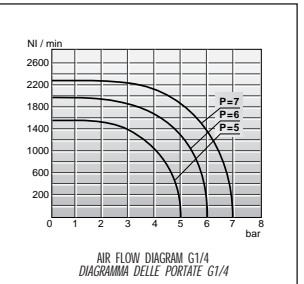
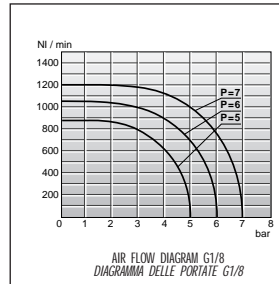
AIR FLOW DIAGRAM G1/4
DIAGRAMMA DELLE PORTATE G1/4

VALVE / *VALVOLA* 3/2

DOUBLE SOLENOID PILOT / *DOPPIO COMANDO ELETTROPNEUMATICO*

Size *Taglia*	A	A1	B	C	C1	D	E	ØF	G	ØI	L	M
1/8	28	~53	18	170	~143	22,2	13	3,2	G1/8	3,2	22,2	8
1/4	32	~55	22	181	~154	29,3	16,2	4,2	G1/4	3,5	29,3	7,3

VALVE / *VALVOLA* 5/2

SINGLE SOLENOID PILOT - INTERNAL PRESSURE RETURN

COMANDO ELETTROPNEUMATICO - RIPOSIZIONAMENTO A MOLLA

Size *Taglia*	A	A1	B	C	C1	D	E	ØF	G	ØI	L	M
1/8	28	~53	18	112	~125,5	35	13	3,2	G1/8	3,2	35	8
1/4	32	~55	22	142,5	~129	50	16,2	4,2	G1/4	3,5	50	7,3

K52W101.

SIMBOLS / *SIMBOLI*

K52W1018

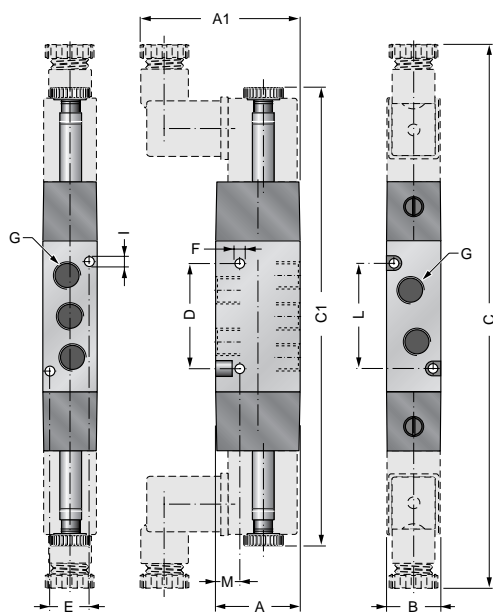
K52W1014

DIAGRAMS / *DIAGRAMMI*

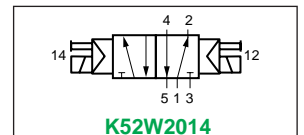
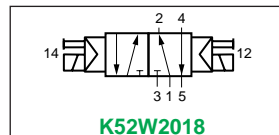
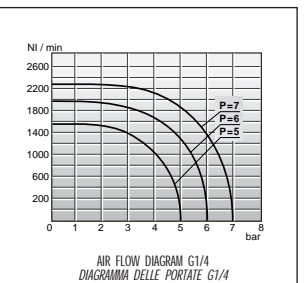
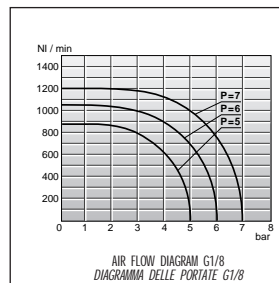
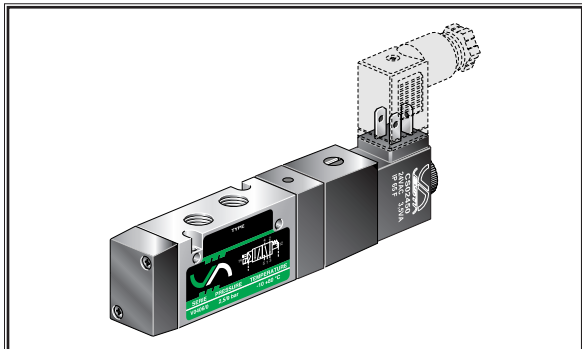
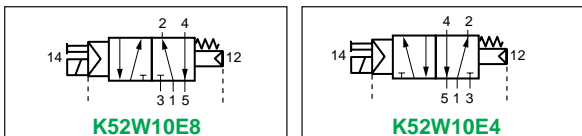
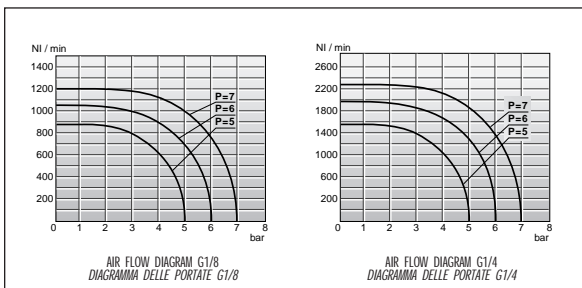
AIR FLOW DIAGRAM G1/8
DIAGRAMMA DELLE PORTATE G1/8

AIR FLOW DIAGRAM G1/4
DIAGRAMMA DELLE PORTATE G1/4

VALVE / *VALVOLA* 5/2

DOUBLE SOLENOID PILOT / *DOPPIO COMANDO ELETTROPNEUMATICO*

Size *Taglia*	A	A1	B	C	C1	D	E	ØF	G	ØI	L	M
1/8	28	~53	18	180	~152	35	13	3,2	G1/8	3,2	35	8
1/4	32	~55	22	202	~174	50	16,2	4,2	G1/4	3,5	50	7,3

K52W201.

SIMBOLS / *SIMBOLI*

K52W2018

K52W2014

DIAGRAMS / *DIAGRAMMI*

AIR FLOW DIAGRAM G1/8
DIAGRAMMA DELLE PORTATE G1/8

AIR FLOW DIAGRAM G1/4
DIAGRAMMA DELLE PORTATE G1/4

K52W10E.

SIMBOLS / *SIMBOLI*

K52W10E8

K52W10E4

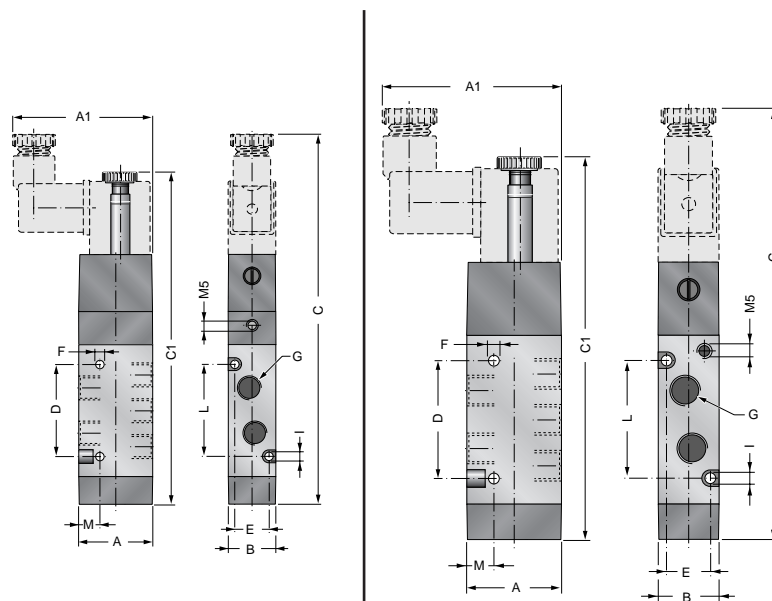
DIAGRAMS / *DIAGRAMMI*

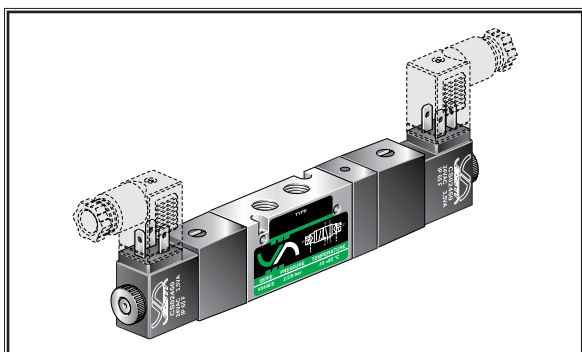
AIR FLOW DIAGRAM G1/8
DIAGRAMMA DELLE PORTATE G1/8

AIR FLOW DIAGRAM G1/4
DIAGRAMMA DELLE PORTATE G1/4

VALVE / *VALVOLA* 5/2

SINGLE SOLENOID PILOT - EXTERNAL PRESSURE RETURN

COMANDO ELETTROPNEUMATICO - PILOTAGGIO ESTERNO

Size *Taglia*	A	B	C	D	E	ØF	G	ØI	L	M	A1	C1
1/8	28	18	112	35	13	3,2	G1/8	3,2	35	8	53	127
1/4	32	22	142,5	50	16,2	4,2	G1/4	3,5	50	7,3	55	129

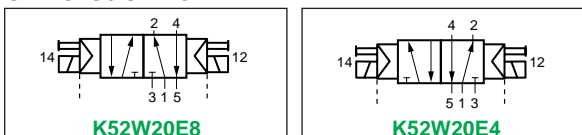
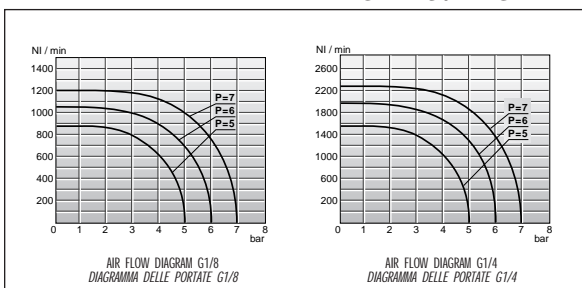
K52W20E.

SIMBOLS / *SIMBOLI*

K52W20E8

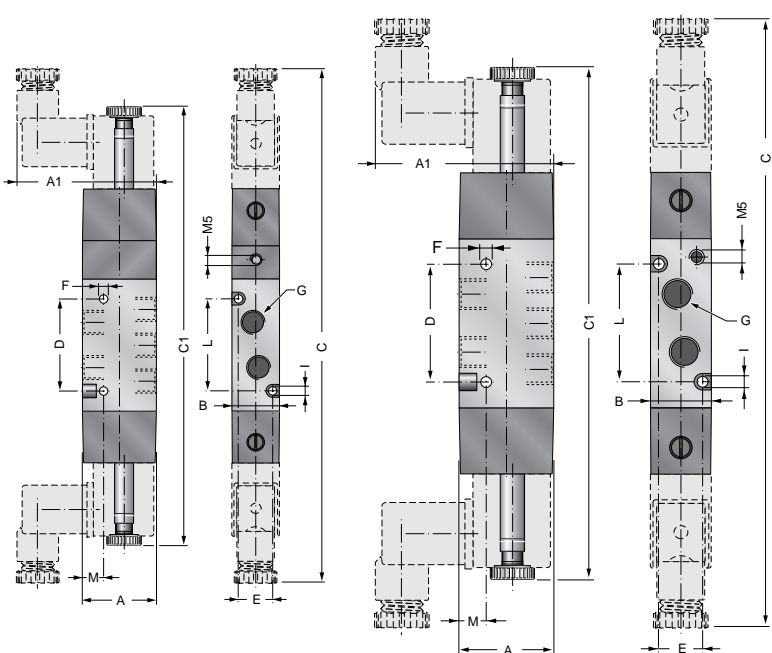
K52W20E4

DIAGRAMS / *DIAGRAMMI*

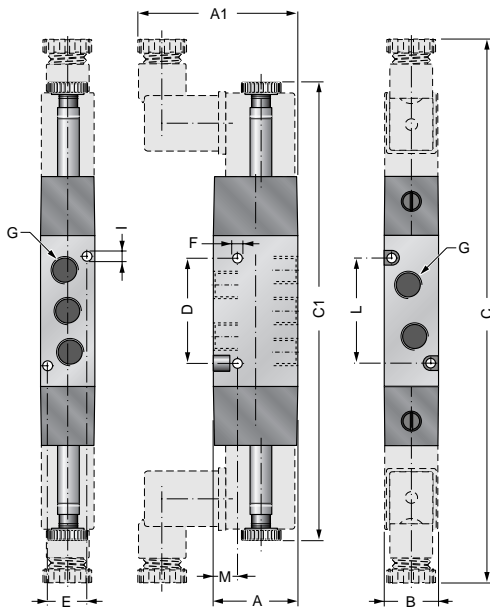
AIR FLOW DIAGRAM G1/8
DIAGRAMMA DELLE PORTATE G1/8

AIR FLOW DIAGRAM G1/4
DIAGRAMMA DELLE PORTATE G1/4

VALVE / *VALVOLA* 5/2

DOUBLE SOLENOID PILOT - EXTERNAL PRESSURE RETURN

DOPPIO COMANDO ELETTROPNEUMATICO - PILOTAGGIO ESTERNO

Size *Taglia*	A	B	C	D	E	ØF	G	ØI	L	M	A1	C1
1/8	28	18	180	35	13	3,2	G1/8	3,2	35	8	53	152
1/4	32	22	202	50	16,2	4,2	G1/4	3,5	50	7,3	55	174

VALVE / *VALVOLA* 5/3

DOUBLE PNEUMATIC PILOT (MID-POSITION PRESSURIZED) / *DOPPIO COMANDO PNEUMATICO (CENTRI IN PRESSIONE)*
DOUBLE PNEUMATIC PILOT (MID-POSITION CLOSED) / *DOPPIO COMANDO PNEUMATICO (CENTRI CHIUSI)*
DOUBLE PNEUMATIC PILOT (MID-POSITION EXHAUSTED) / *DOPPIO COMANDO PNEUMATICO (CENTRI APERTI)*

Size *Taglia*	A	A1	B	C	C1	D	E	ØF	G	ØI	L	M
1/8	28	~53	18	180	~152	35	13	3,2	G1/8	3,2	35	8
1/4	32	~55	22	202	~174	50	16,2	4,2	G1/4	3,5	50	7,3

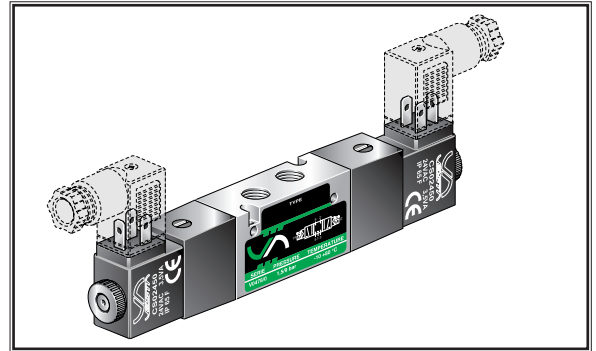
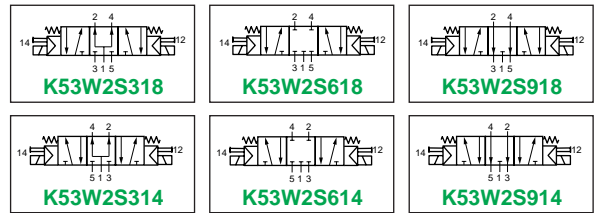
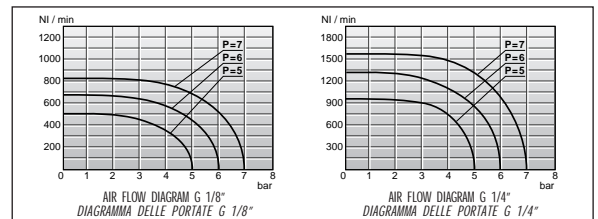
K53W2S . 1.

SIMBOLS / *SIMBOLI*

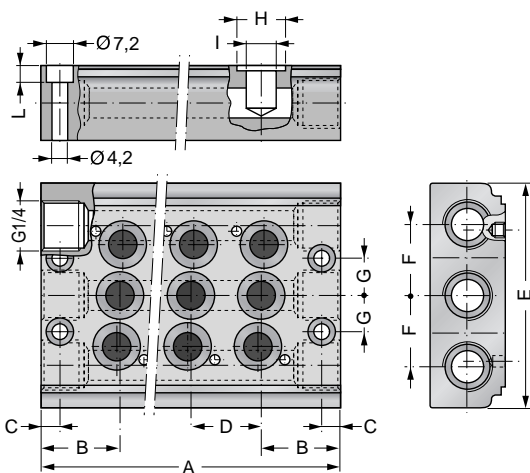
DIAGRAMS / *DIAGRAMMI*

Nl / min
P=7
P=6
P=5
bar

AIR FLOW DIAGRAM G 1/8"
DIAGRAMMA DELLE PORTATE G 1/8"

AIR FLOW DIAGRAM G 1/4"
DIAGRAMMA DELLE PORTATE G 1/4"

MANIFOLD / *BASE A DOPPIO INGRESSO*

KME . . .

Ø7,2 H I L Ø4,2 G1/4 G F E C B D A

Size *Taglia*	B	C	D	E	F	G	ØH	ØI	L
1/8	21	5	19	60	19	10	13	8	4,5
1/4	25	6,5	23	70	23	11,5	15,9	10	5

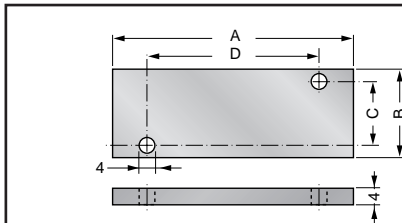
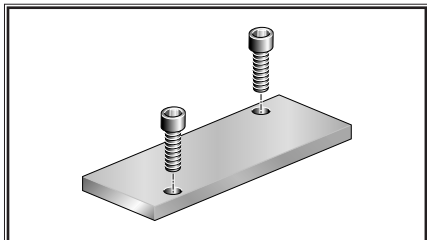
- Available upon request manifold up to 20 places.
- Valves fixing screws and seals are supplied with manifold.
- Subbase fixing screws not supplied.
- Manifold suppied assembled on demand.

- *A richiesta sono fornibili basi sino a 20 posti*
- *Le viti e le guarnizioni per il fissaggio delle valvole vengono fornite con la base.*
- *Il fissaggio alla base è a cura del cliente.*
- *A richiesta, la base può essere fornita preassemblata.*

CODES / *CODICI*

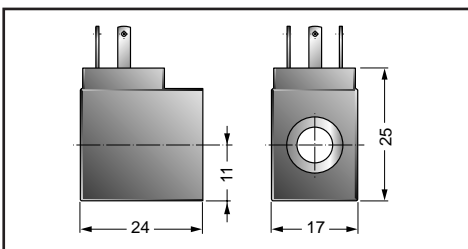
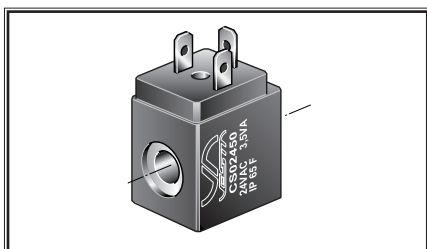
Code *Codice*	A	Place *Posti*
KME218	61	2
KME318	80	3
KME418	99	4
KME518	118	5
KME618	137	6
KME718	156	7
KME818	175	8
KME918	194	9
KME1018	213	10
KME214	73	2
KME314	96	3
KME414	119	4
KME514	142	5
KME614	165	6
KME714	188	7
KME814	211	8
KME914	234	9
KME1014	257	10

COILS FOR SOLENOID VALVES AND ACCESSORIES
SOLENOIDI PER ELETTROVALVOLE ED ACCESSORI

KPCH01. PLUG FLAT / *CHIUSURA POSTO INUTILIZZATO*

Plug flat includes assembling screws.

La piastrina di chiusura dei posti non utilizzati della base é fornita con le relative viti di fissaggio.

Size *Taglia*	A	B	C	D	Code *Codice*
1/8	49	18	13	35,5	**KPCH018**
1/4	60	22	16,2	50	**KPCH014**

CS ..... COILS / *SOLENOIDI PER ELETTROVALVOLE*

CODES / *CODICI*

Code ordination *Codice ordinazione*	Voltage *Tensione*
CS01200	12 V DC
CS02400	24 V DC
CS02450	24 V 50/60Hz AC
CS11050 (*)	110 V 50/60Hz AC
CS22050 (*)	220 V 50/60Hz AC

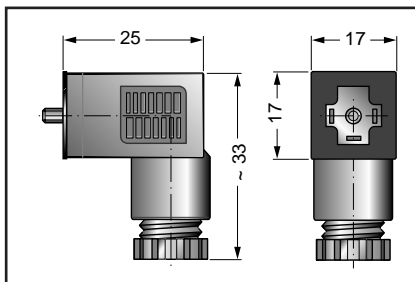
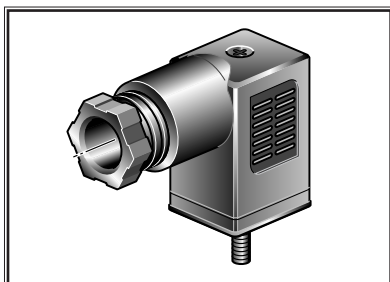
(*) Please see page / *Vedi pag.* **B-31**

TECHNICAL FEATURES

Standard tensions	12, 24, V DC 24, 110, 220 V AC (50/60 Hz)
Other tensions	Contact our commercial department
Duty cicle	100% (continuos)
Power at 20 °C	2,4 Watt DC; 3,5 VA AC
Nominal tension	± 10% during normal working
Operating temperature range	-20 °C ÷ +50 °C
Degree of protection	Fixed plug IP 65 (IEC 144) with connector
Insulation	Class F
Materials	Wire class H - coil moulding glass filled nylon

CARATTERISTICHE TECNICHE

Tensioni standard	*12, 24, V DC* *24,110, 220 V AC (50/60 Hz)*
Altre tensioni	*Interpellare il ns. servizio tecnico commerciale*
Funzionamento	*100% ED alla potenza ed alla temperatura ambiente indicata*
Potenza assorbita a 20 C°	*2,4 Watt in DC; 3,5 VA in AC*
Tensione nominale	*± 10% a bobina calda*
Limiti di temperatura ambiente	*-20 °C ÷ +50 °C*
Protezione	*IP 65 secondo IEC 144 con connettore*
Bobina	*Bobina completa classe F*
Materiali	*Rivestimento nylon caricato vetro filo di rame classe H*

CEP/0.. ..... SOLENOID CONNECTORS / *CONNETTORI*

CODES / *CODICI*

Description *Descrizione*	Code *Codice*	Voltage *Tensione*
Universal connector *Connettore universale*	**CEP/0**	All tension *Tutte le tensioni*
Connector with led *Connettore con led*	**CEP/0 L 10/50** **CEP/0 L 70/250**	10/50 V AC / DC 70/250 V AC / DC
Connector with led and varistor *Connettore con led e varistore*	**CEP/0 LV 24** **CEP/0 LV 110** **CEP/0 LV 220**	24 V AC / DC 110 V AC / DC 220 V AC / DC

TECHNICAL FEATURES

Wire connection	With screwed terminals
Gland thread	PG 7
Number of poles	2 Poles + earth
Housing colour	Black, transparent in the led version.

CARATTERISTICHE TECNICHE

Connessione cavi	*Con morsetti a vite*
Filettatura passacavo	*PG 7*
N° Poli	*2 Poli + terra*
Colori connettore	*Nero, trasparente nelle versioni con led.*